Week 14 Assignment

- Assignment (1) Drawing charts: Using Matplotlib

- Assignment (2) Drawing charts: Using Seaborn

Week 14 Assignment

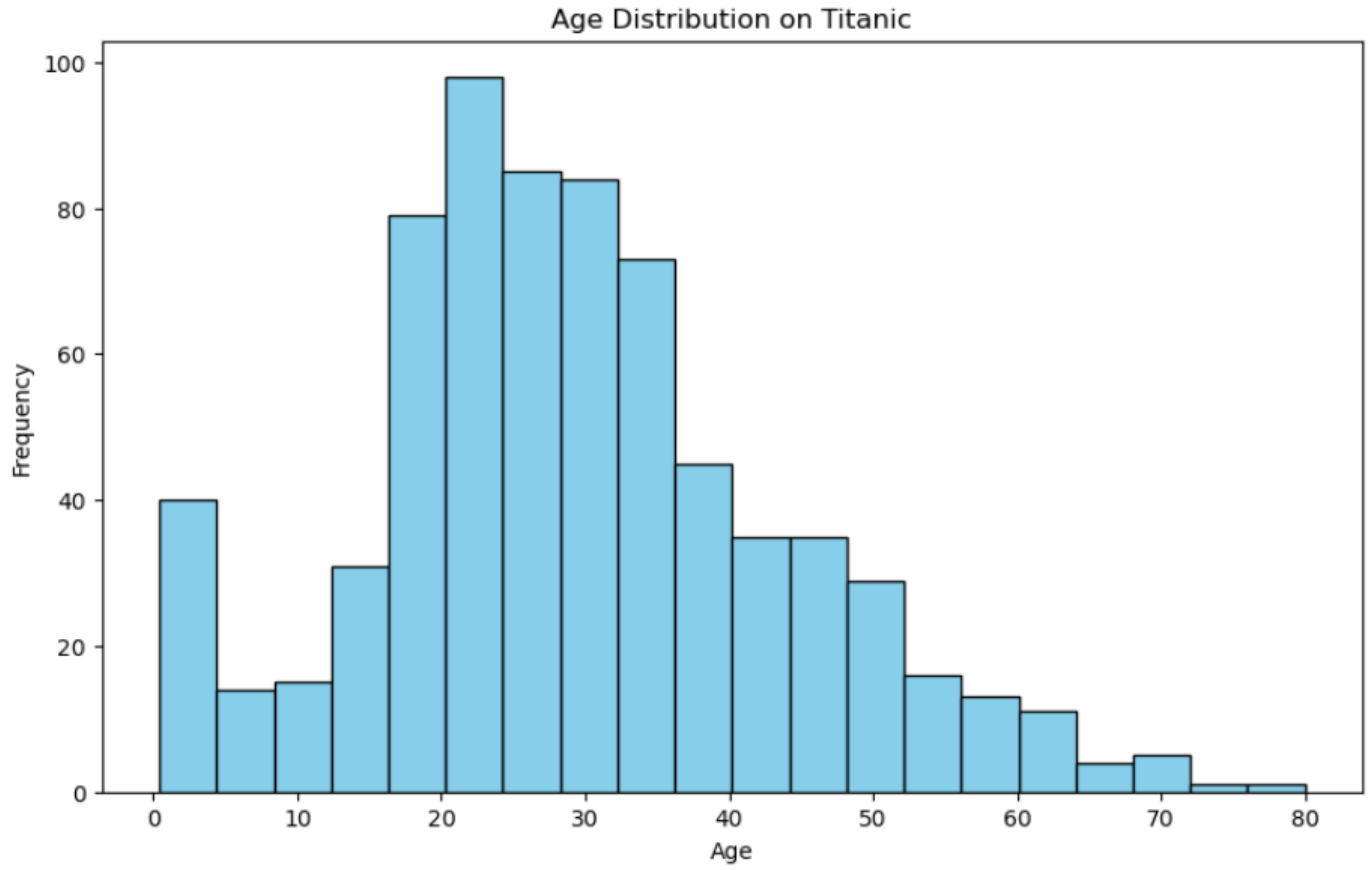
- **Submission due :** June 16th, 23:55
- **What to submit :** Notebook file (.ipynb) * **Submit each assignment as a separate file**
  - Colab : [File]-[Download]-[Download .ipynb]
  - Kaggle : [File]-[Download Notebook]

- **IMPORTANT**
  - Using the **matplotlib** library for Assignment (1)
  - Using the **seaborn** library for Assignment (2)
  - The design of the graph such as color or width does not need to be the same
  - The type of graph must be the same
  - For Assignment (1), Be sure to download the dataset from Assignment Week14
    - The file name is “titanic.csv”.
    - You don’t need to clean the dataset

Week 14 Assignment (1)

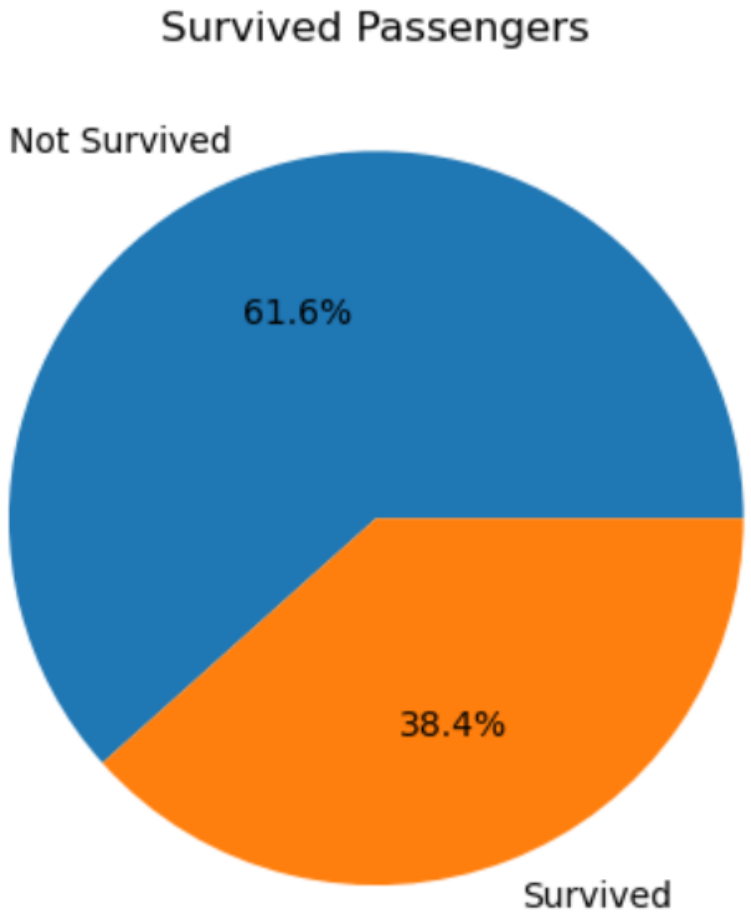
Week 14 Assignment (1)

- **Problem 1:** Draw the distribution according to 'Age' as a histogram.
  - Bins can be set freely.



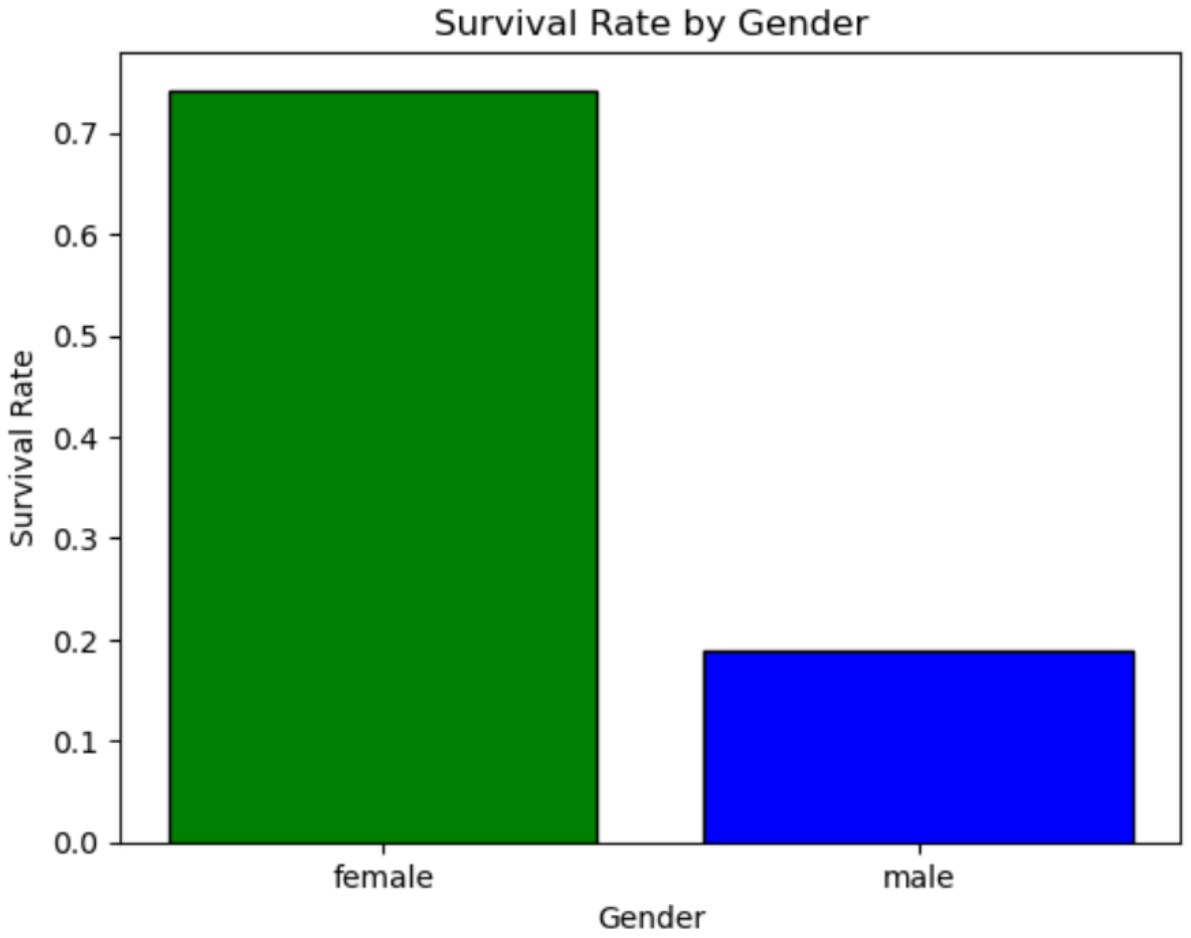
Week 14 Assignment (1)

- **Problem 2:** Visualize the ratio of survivors(“Survived==1”) and non-survivors (“Survived==0”) using the pie chart



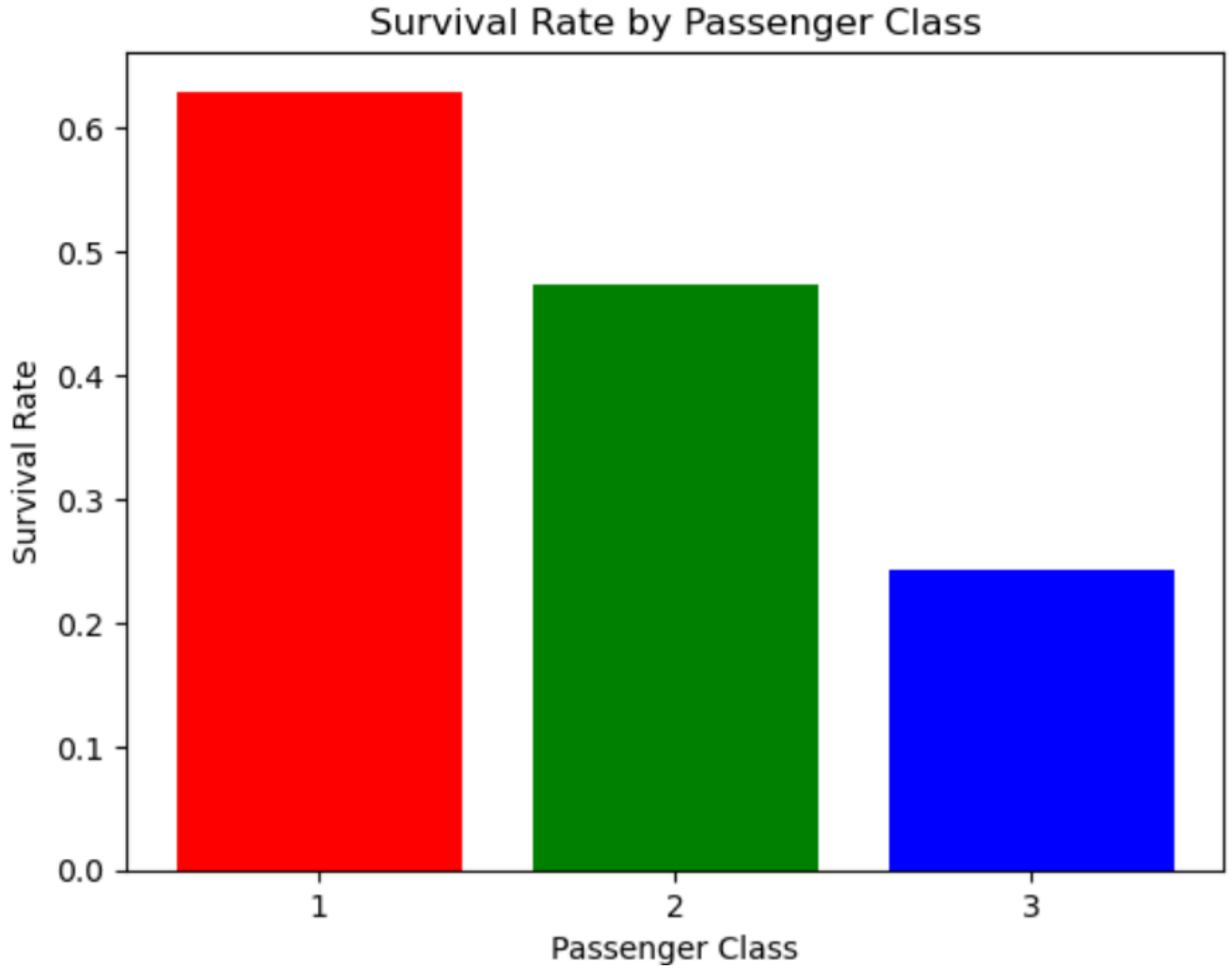
Week 14 Assignment (1)

- **Problem 3:** Visualize the survival rate by gender (‘Sex’) using the bar chart
  - hint) using the groupby()



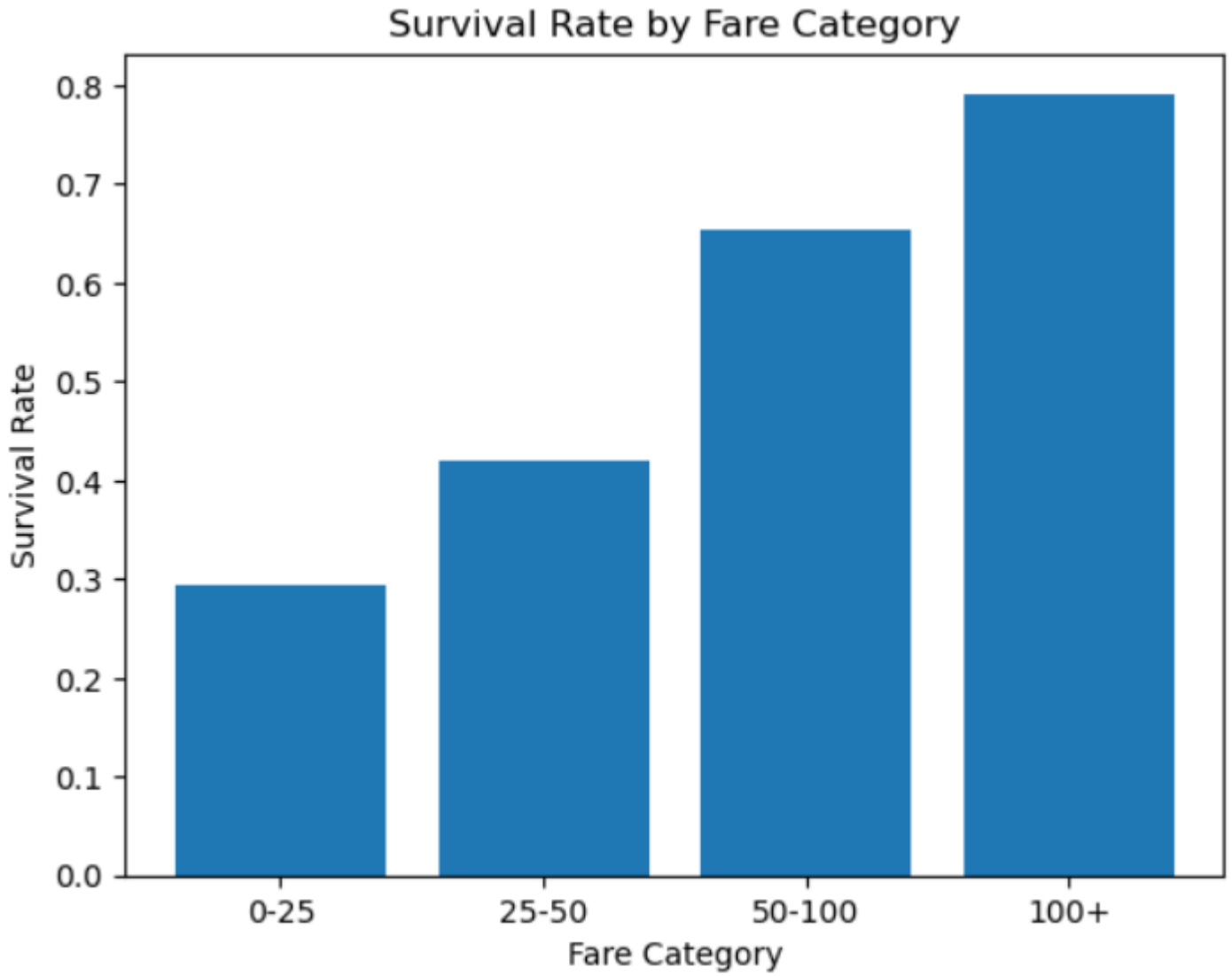
Week 14 Assignment (1)

- **Problem 4:** Visualize the survival rate by passenger class (‘Pclass’) using the bar chart
  - hint) using the groupby()



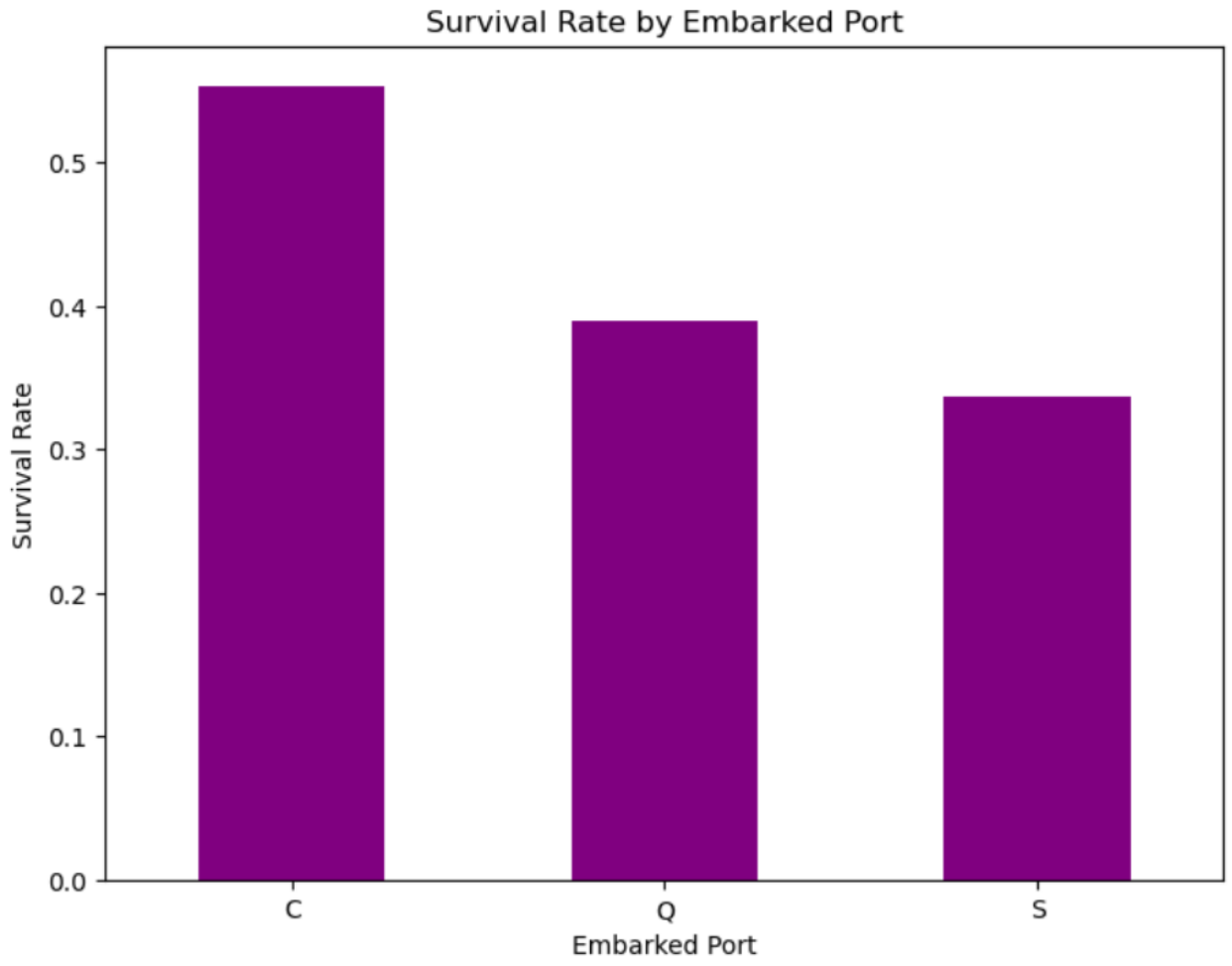
Week 14 Assignment (1)

- **Problem 5:** Visualize the survival rate by fare ***category*** using the bar chart
  - Divide ‘Fare’ into four categories (bins)
  - hint) using the cut() and groupby()



Week 14 Assignment (1)

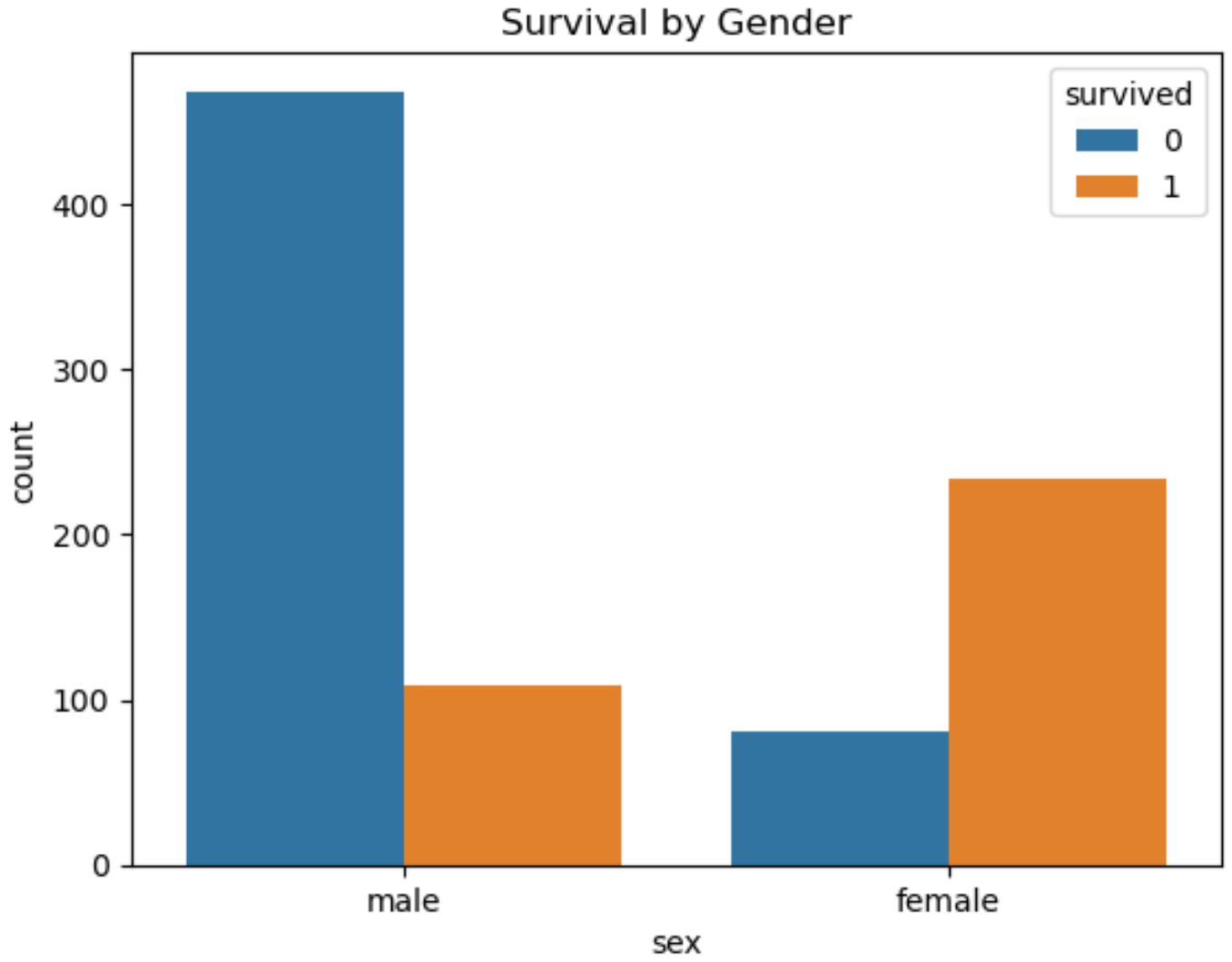
- **Problem 6:** Visualize the survival rate by embarked port (‘Embarked’) using the bar chart
  - hint) using the groupby()



Week 14 Assignment (2)

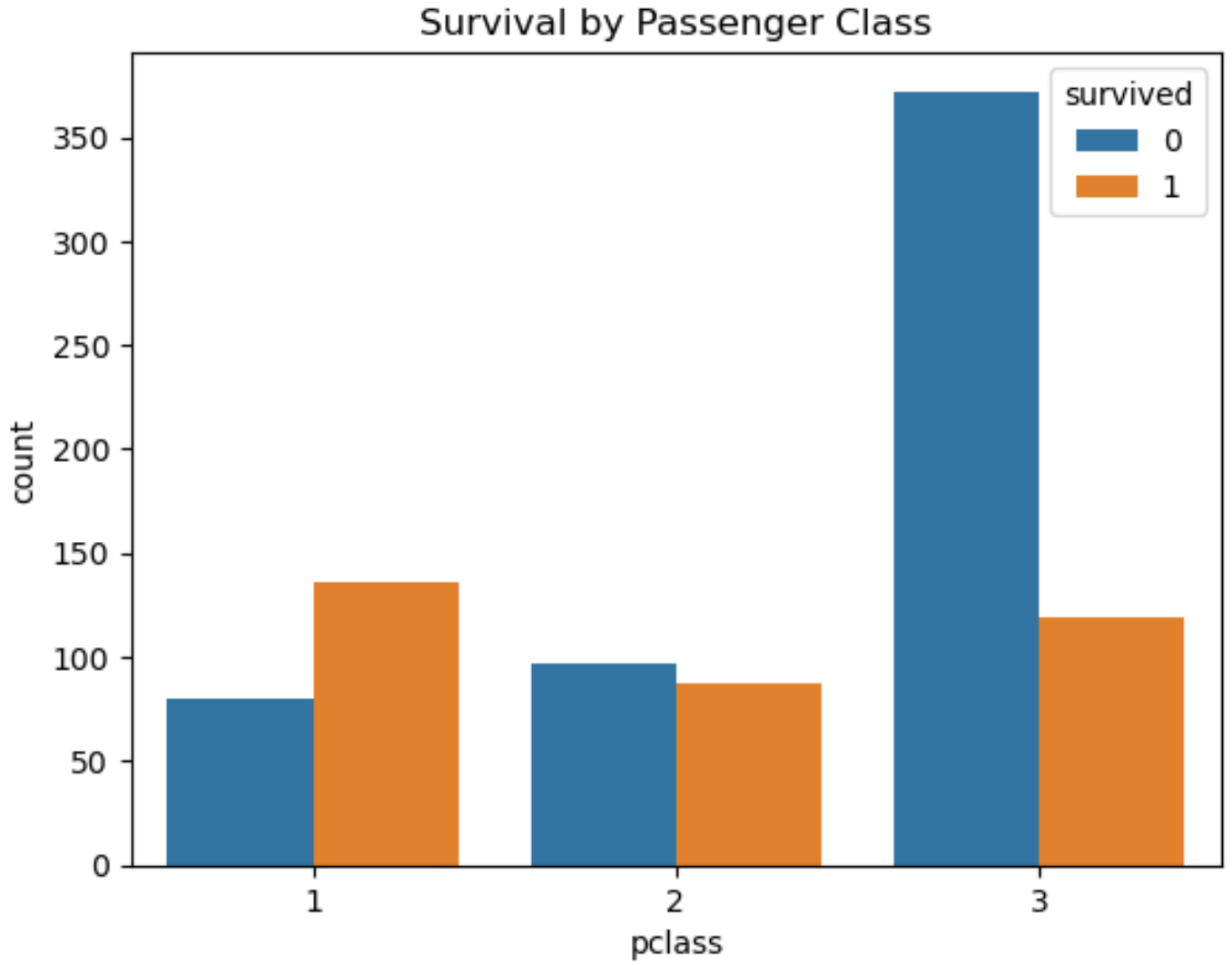
Week 14 Assignment (2)

- Problem 1: Visualize the number of survivor by gender



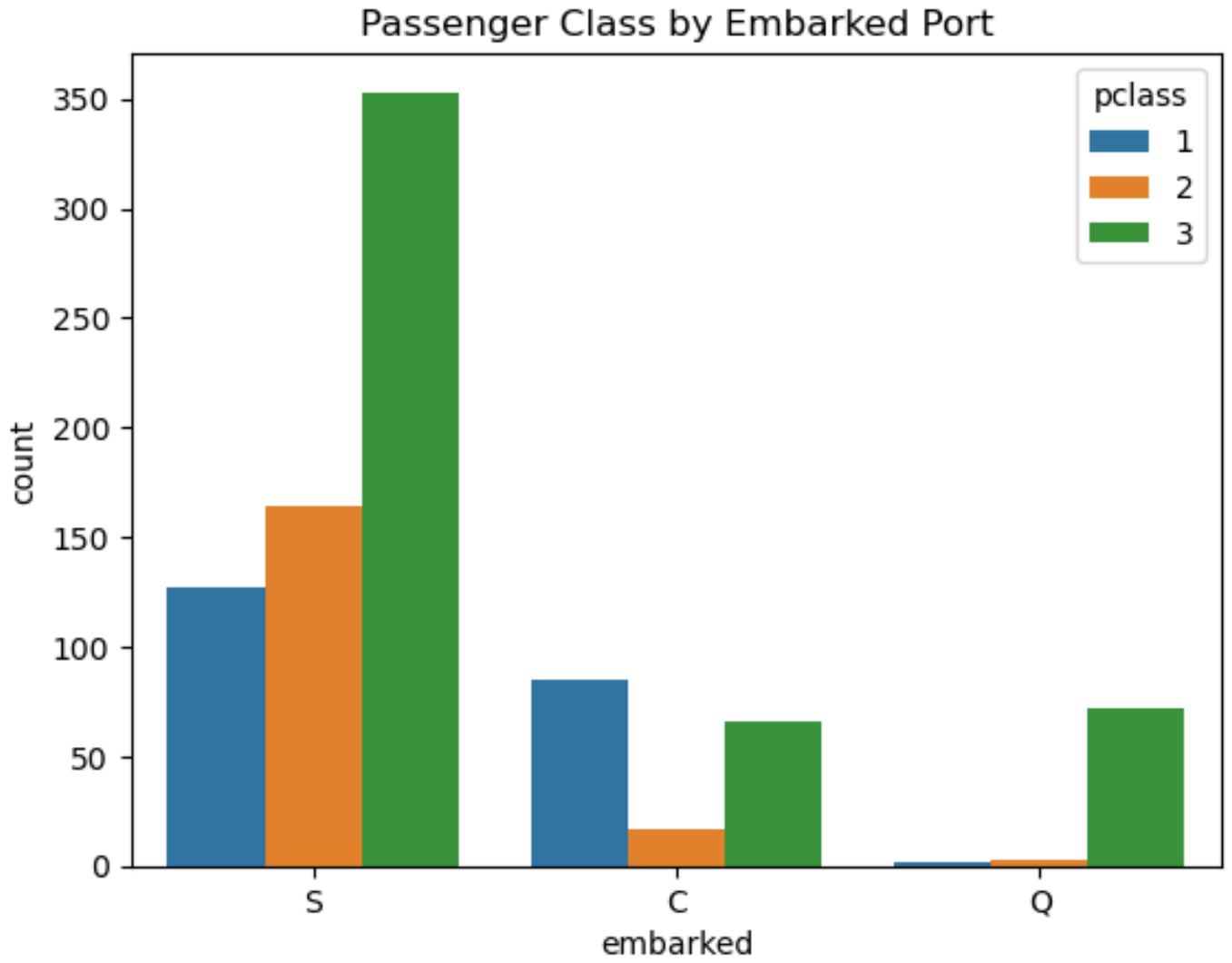
Week 14 Assignment (2)

- Problem 2: Visualize the number of survivor by passenger class



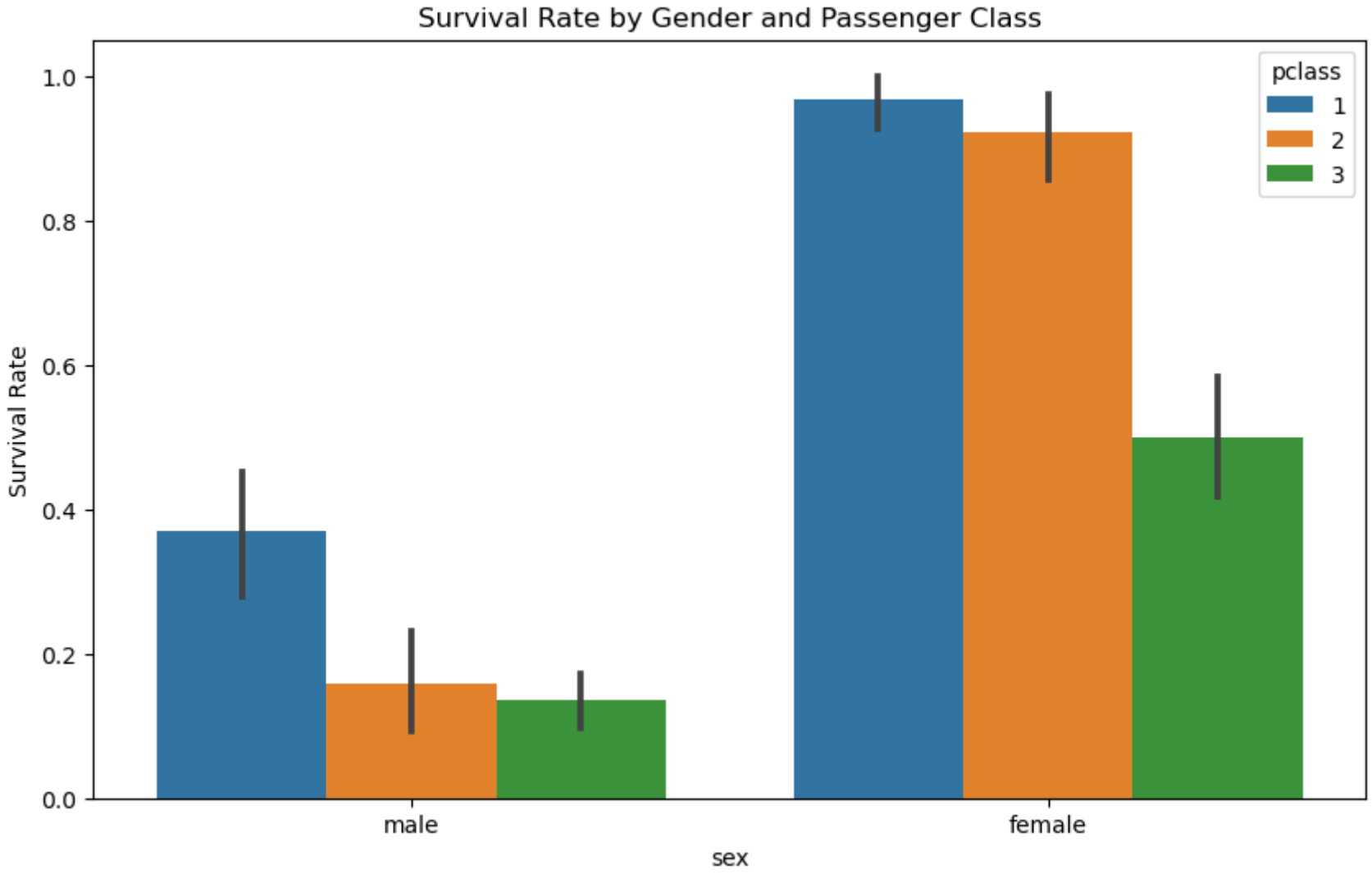
Week 14 Assignment (2)

- Problem 3: Visualize the number of people per passenger class by embarked port



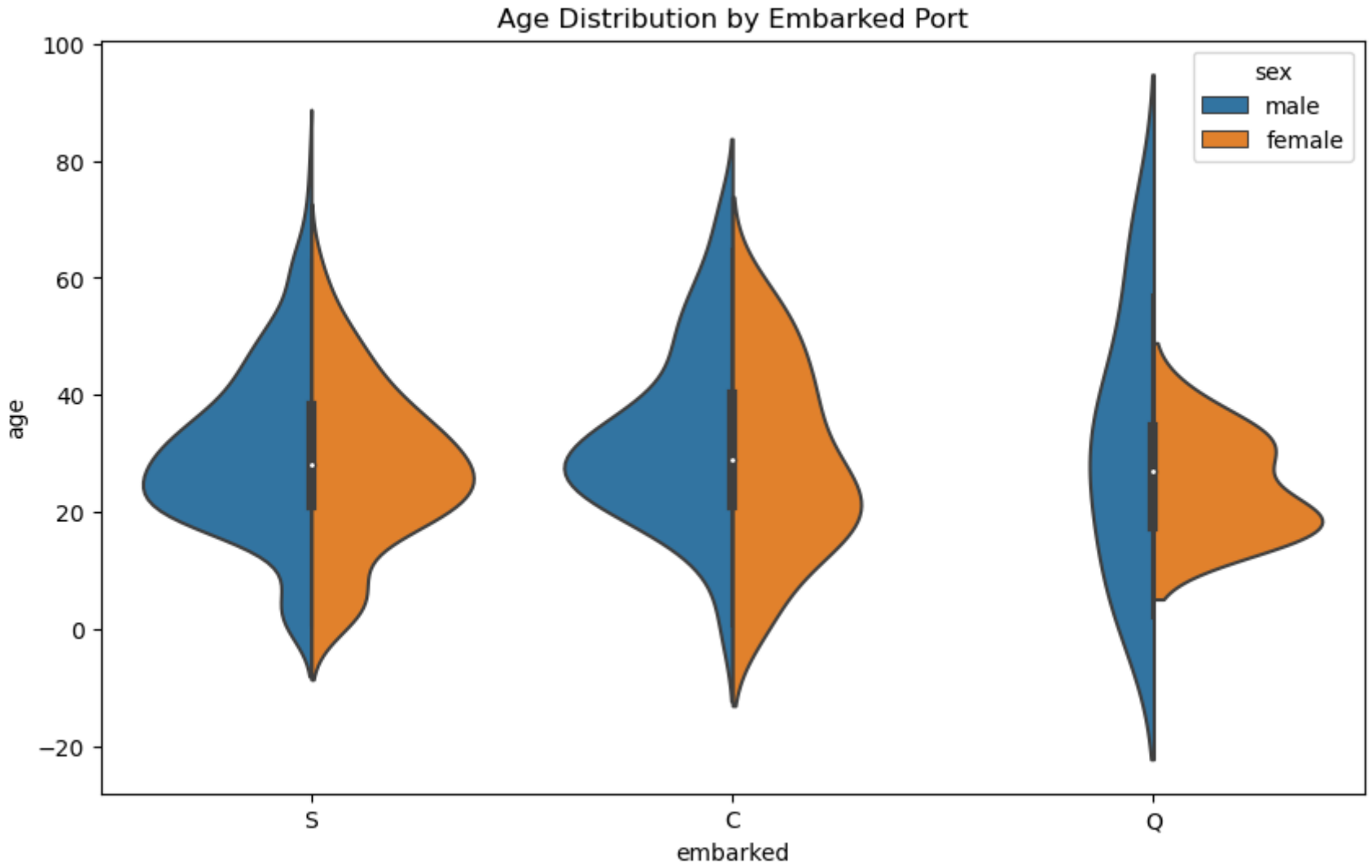
Week 14 Assignment (2)

- Problem 4: Visualize survival rate by gender and passenger class



Week 14 Assignment (2)

- Problem 5: Visualize age distribution by embarked port and gender.



Week 14 Assignment (2)

- Problem 6: Visualize the survival by gender and passenger class